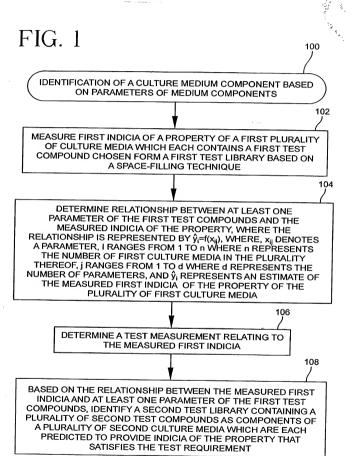
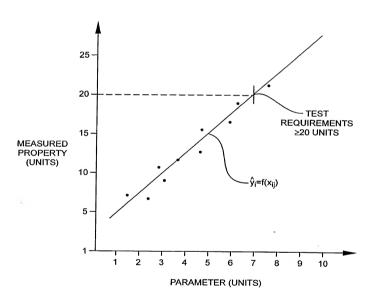
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FIG. 2



300

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306

308

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FIG. 3

IDENTIFICATION OF A CULTURE MEDIUM COMPONENT BASED ON PARAMETERS OF MEDIUM COMPONENTS

MEASURE FIRST INDICIA OF A PROPERTY OF A FIRST PLURALITY
OF CULTURE MEDIA WHICH EACH CONTAINS A FIRST TEST
COMPOUND CHOSEN FROM A FIRST TEST LIBRARY BASED ON
A SPACE-FILLING TECHNIQUE

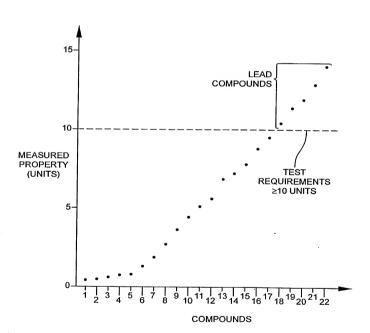
DETERMINE A TEST MEASUREMENT RELATING TO THE MEASURED FIRST INDICIA

DETERMINE A RELATIONSHIP BETWEEN AT LEAST ONE PARAMETER OF THE FIRST TEST COMPOUNDS AND THE MEASURED INDICIA OF THE PROPERTY, WHERE THE RELATIONSHIP IS REPRESENTED BY A DISTANCE FUNCTION d(x₁, x₂) BETWEEN A FIRST VALUE OF A PARAMETER, x₁, OF A FIRST TEST COMPOUND AND A SECOND VALUE OF THE PARAMETER, x₂, OF A SECOND TEST COMPOUND NOT WITHIN THE PLURALITY OF FIRST TEST COMPOUNDS

ESTIMATING INDICIA OF THE PROPERTY OF A CULTURE MEDIUM CONTAINING THE ADDITIONAL TEST COMPOUND AS THE INDICIA OF THE PROPERTY OF THE CULTURE MEDIUM CONTAINING THE FIRST TEST COMPOUND IF d(x₁, x₂)≤ d_{cutoff}, WHERE d_{cutoff} IS A CULTOFF DISTANCE

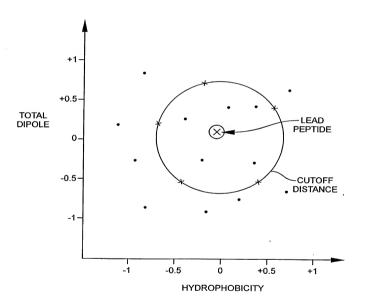
BASED ON THE RELATIONSHIP BETWEEN THE MEASURED FIRST INDICIA AND AT LEAST ONE PARAMETER OF THE FIRST TEST COMPOUNDS, IDENTIFY A SECOND TEST LIBRARY CONTAINING A PLURALITY OF SECOND TEST COMPOUNDS AS COMPONENTS OF A PLURALITY OF SECOND CULTURE MEDIA WHICH ARE EACH PREDICTED TO PROVIDE INDICIA OF THE PROPERTY THAT SATISFIES THE TEST REQUIREMENT

FIG. 4A



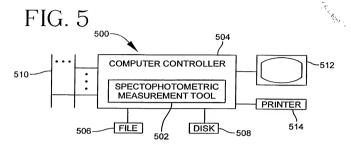
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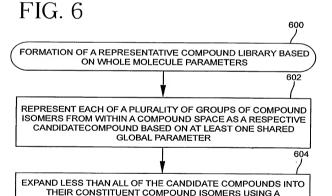
FIG. 4B



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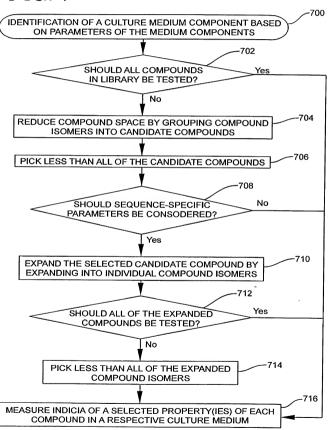


DEFINE A TEST LIBRARY CONTAINING LESS THAN ALL OF THE EXPANDED COMPOUND ISOMERS

SPACE-FILLING DESIGN

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FIG. 7



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FIG. 8

